

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Freeman, et al.) Group Art Unit: 2816
Serial No: 09/760,531) Examiner:
Filed: January 16, 2001) Attorney Docket No: 1693-81437
For: BEAMFORMED ULTRASONIC)
IMAGER WITH DELTA-SIGMA)
FEEDBACK CONTROL)

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98, applicant submits herewith the following statements consisting of:

- I. A list of (i) patents and (ii) other publications (and attached form PTO 1449);
- II. General remarks.

A copy of each listed document is enclosed herewith.

I. (i) PATENTS

| <u>U.S. Patent No.</u> | <u>Date of Issue</u> | <u>Patentee(s)</u> |
|------------------------|----------------------|--------------------|
| 3,946,320 | 03/23/76 | Overbury |
| 4,772,871 | 08/20/88 | Suzuki, et al. |
| 5,030,954 | 07/09/91 | Ribner |
| 5,144,308 | 09/01/92 | Norsworthy |
| 5,203,335 | 04/20/93 | Noujaim, et al. |
| 5,241,310 | 08/31/93 | Tiemann |
| 5,446,917 | 08/29/95 | Krisciunas, et al. |
| 5,461,389 | 10/24/95 | Dean |
| 5,477,859 | 12/26/95 | Engeler |
| 5,521,499 | 05/28/96 | Goldenberg |
| 5,668,777 | 09/16/97 | Schneider |

The PTO did not receive the following
listed item(s) NPL. NON-PATENT LITERATURE

Applicant: Freeman, et al.
Serial No.: 09/760,531

I. (i) PATENTS

(foreign patents)

| <u>Document No.</u> | <u>Date</u> | <u>Country</u> |
|---------------------|-----------------|----------------|
| 62-22435 | October 2, 1987 | Japan |

I. (ii) OTHER PUBLICATIONS

1. Norman, O., *A Band-Pass Delta-Sigma Modulator for Ultrasound Imaging at 160 MHz Clock Rate*, 31(12) IEEE Journal of Solid-State Circuits 2036-41 (December, 1996)
2. Baseri, R., et al., *Testing Adaptive Jamming Cancellation Algorithms Using a Digital Beamforming Array*, Proceedings of the 1997 IEEE National Radar Conference (May 13-15, 1997)

II. GENERAL REMARKS

It is respectfully requested that the above-listed patents and publications be given consideration by the Examiner and made of record in the subject patent application.

Respectfully submitted,



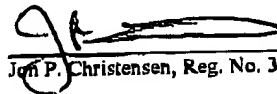
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April 4, 2001

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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231, on this date: April 4, 2001



Jon P. Christensen, Reg. No. 34,137

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|--|--|---|----------|-----------------------------------|-------------------|--------------------------|-------------------------------|
| Form PTO-1449 (Rev. 8-88) | | U.S. Department of Commerce Patent and Trademark Office | | Attorney Docket No. 1693-81437 | | Serial No. 09/760,531 | |
| INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) | | | | Applicant Freeman, et al. | | Group No. | |
| | | | | Filing Date January 18, 2001 | | | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| Examiner Initial* | | Document Number | Date | Name | Class | Subclass | Filing Date If Appropriate |
| | | 3,946,320 | 03/23/76 | Overbury | 325 | 470 | |
| | | 4,772,871 | 08/20/88 | Suzuki, et al. | 341 375 | 155 28, 33 | |
| | | 5,030,954 | 07/09/91 | Ribner | 341 375 | 172, 143 29, 33 | |
| | | 5,144,308 | 09/01/92 | Norsworthy | 341 | 131 | |
| | | 5,203,335 | 04/20/93 | Noujaim, et al. | 128 73 | 661.01 625 | |
| | | 5,241,310 | 08/31/93 | Tiemann | 341 | 143, 139 | |
| | | 5,446,917 | 08/29/95 | Krisciunas, et al. | 395 | 800 | |
| | | 5,461,389 | 10/24/95 | Dean | 342 | 375, 372, 154 | |
| | | 5,477,859 | 12/26/95 | Engeler | 128 73 | 661.01 626 | |
| | | 5,521,499 | 05/28/96 | Goldenberg | 327 | 237 | |
| | | 5,668,777 | 09/18/97 | Schneider | 367 367 114 | 96, 103, 135 20.1 | |
| | | | | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | Document Number | Date | Country | Class | Subclass | Translation Yes No |
| | | 62-224345 | 10/02/87 | Japan | A61 B | 17/36 | |
| | | | | | | | |
| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | | | | |
| | | Norman, O., <i>A Band-Pass Delta-Sigma Modulator for Ultrasound Imaging at 160 MHz Clock Rate</i> , | | | | | |
| | | 31(12) IEEE Journal of Solid-State Circuits 2038-41 (December, 1986) | | | | | |
| | | Baseri, R., et al., <i>Testing Adaptive Jamming Cancellation Algorithms Using a Digital Beamforming Array</i> , | | | | | |
| | | Proceedings of the 1997 IEEE National Radar Conference (May 13-15, 1997) | | | | | |
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| | | | | | | | |
| Examiner | | | | Date Considered | | | |
| *Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | | | | | | |